NOTICE OF INTENDED INSTALLATION AND USE

THE CAR SHOW MULTI-MEDIA NAVIGATION SYSTEMS CONTAIN AN INTERNAL VIDEO PLAYER, WHICH IS NOT INTENDED FOR VIEWING BY THE DRIVER. THE VIDEO PLAYER IS DISABLED WHEN THE VEHICLE IS IN MOTION THROUGH A CONNECTION TO THE PARKING BRAKE.

THE INSTALLER OF THIS PRODUCT MUST INSURE THE VIDEO DISABLE CONNECTION IS WORKING PROPERLY PRIOR TO DELIVERY OF THE VEHICLE.

IMPROPER INSTALLATION COULD DISTRACT THE DRIVER OR INTERFERE WITH SAFE OPERATION OF THE VEHICLE, WHICH COULD RESULT IN SERIOUS INJURY OR DEATH, AND COULD ALSO VIOLATE STATE AND/OR FEDERAL LAW.

CAR SHOW DISCLAIMS ANY LIABILITY FOR ANY BODILY INJURY OR PROPERTY DAMAGE THAT MAY RESULT FROM ANY IMPROPER OR UNINTENDED INSTALLATION AND/OR USE.

	STOP Damage to the vehicle may occur Do not proceed until process has been completed
	CAUTION Process must be carefully observed in order to reduce the risk of damage to the accessory or vehicle
	CRITICAL Process must be carefully observed in order to ensure a quality installation
	TOOLS and EQUIPMENT Specific tools and equipment recommended for this process
	SAFETY RISK Observe safe practices, this process can be dangerous and there is a risk of personal injury
	TESTING and TROUBLESHOOTING Content specific testing and troubleshooting points

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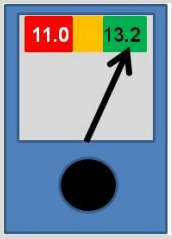
PREPARING FOR THE INSTALLATION **Before you start, please read these critical steps below**		**STEP 1**
BEFORE YOU START THE INSTALLATION, READ THIS GUIDE!		
CHECK THE BATTERY Test the battery voltage to make sure it's fully charged This only takes seconds and can save hours of troubleshooting later.		
TURN THE VEHICLE ***OFF*** Keep the Vehicle Off during the installation to avoid setting various Vehicle Faults		
Keep the Vehicle OFF during the installation Failure to follow this may cause the AIRBAG FAULT SENSOR to become enabled. Dealer Service Departments charge a significant fee to reset the Fault Sensor.		

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REMOVE THE FACTORY RADIO

2012 GMC Sierra Shown

You will need to remove multiple interior trim components prior to removing the factory radio. The following steps will help guide you through this process.

STEP 2

Tools Required:

- 7mm nut-driver
- Panel pry tool

Carefully Remove Right Dash Trim

Remove the right side dash trim using thin pry tool

Carefully Remove Upper Left Dash Trim

Remove the upper Left dash trim using thin pry tool

Lower Shift Lever

Make sure parking brake is engaged!!

Carefully pull shift lever down to ease dash panel removal.

Remove Dash Trim

Cautiously remove dash trim using caution not to break plastic. Pull dash trim towards you.

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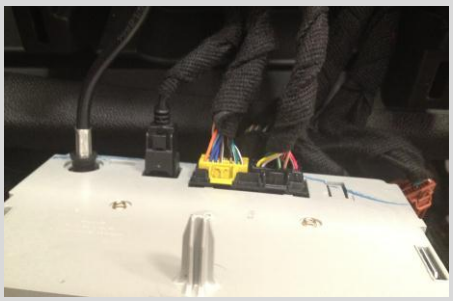
Unplug Dash Panel Harnesses Carefully unplug dash panel harnesses		
Remove Climate Controls Use 7mm socket to remove 2 x 7mm bolts to remove climate control assembly		
Unplug Climate Controls Carefully unplug climate control assembly		
Remove Radio Mounting Bolts Use 7mm socket to remove 4 x 7mm radio mounting bolts		
Unplug radio Harnesses Carefully unplug all harnesses at back of radio		

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LOCATING REMOTE COMPONENTS

You will need to mount the GPS and Optional Satellite Radio Antennas on the exterior of the vehicle.

STEP 3

Use Caution around SRS Components

It is the **installer's responsibility** to ensure that the safety equipment in the vehicle is **NOT** adversely affected by installation of this system. Ensure that the routing of the harnesses do NOT obstruct airbags, SRS or other safety devices.

Mount the GPS and Sat Radio antenna on the EXTERIOR of the Vehicle

Route the GPS harness away from other power harnesses in the vehicle.

This will help to ensure optimum performance of the GPS system.

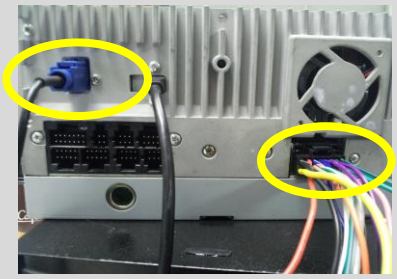
INSTALL THE CAR SHOW NAVIGATION SYSTEM

You will need to prepare the Navigation System for installation in the vehicle.

STEP 4

Connect the Power and GPS Harnesses

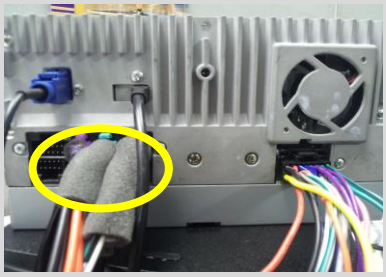
The GPS Harness must be properly seated into connector.
Also be sure steering wheel control connector is securely connected.
Failure to follow this step may result in poor GPS signal and steering wheel controls being inop.



Connect Optional Harnesses such as iPod, Satellite Radio, Camera

These harnesses must be fully engaged prior to the system installation.

See the Main Harness Diagram below for more information



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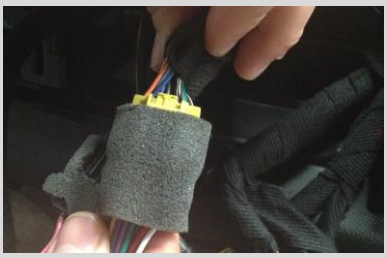
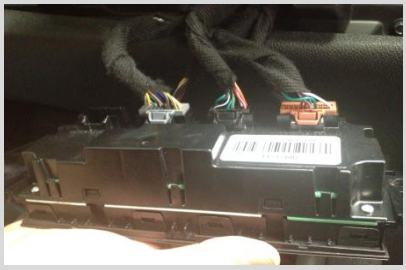
CarShow PP-GM-1210-2 Main harness comes **pre-wired** for NON-Amplified (Non-Bose) systems. If your vehicle is equipped with Bose amplification (Bose will be on speaker grills), you will need to connect the PP-GM-1210-8 amp harness (shown at right). This harness connects to “amp pre-out” port on back of CarShow unit.		
Chime Module Placement Be sure to install chime module with speaker facing **down**		
Harness Connections Be sure to securely connect all harnesses		
Re-install Radio Mounting Bolts Use 7mm socket to re-install 4 x 7mm radio mounting bolts		
Reconnect Climate Controls Carefully reconnect climate control assembly		

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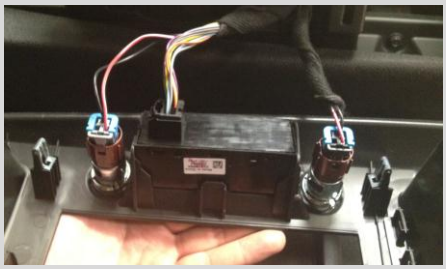
Re-install Climate Control Bolts Use 7mm socket to re-install 2 x 7mm radio mounting bolts		
Turn the vehicle ON and confirm the unit is fully operational With the connectors **Fully Engaged**, turn the vehicle on and press the **RESET** located at lower right corner of radio face		
Reconnect Dash Panel Harnesses Carefully reconnect dash panel harnesses		
Re-install Dash Trim Cautiously re-install dash trim using caution not to break plastic.		

ENABLE INSTALLER SETTINGS You will need to select certain Installer setting based on any Optional Equipment that you may have installed	**STEP 5**
Launch the Installer Setting Screen From any screen with the Menu Button, follow these steps to display the Installer Setting Screen: 1) From any Screen, select “Menu” 2) From the Menu Screen, select “Settings” 3) Press “Keypad,” Press “1120” and “Enter”	

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Select the individual Settings as needed for the installed components

Selectable options vary by product and installation. Select the options as applicable for the installed optional components.

ResLink Sat Radio Settings

Be sure that OE Sat option is configured properly.

If OEM Sat radio is desired, "Factory Sat" option needs to be set to "ON."

If "aftermarket" Sirius tuner (SCC1) is being used, set "Factory Sat" option to "Off."

BLUETOOTH PHONE NOTICE

If this Vehicle is equipped with **FACTORY BLUETOOTH**, the "BT" option must be set to "**OFF"** in the Installer Setting Menu.

ONLY ONE BT System can be Paired at a time (either Factory GM **OR** CarShow)

Perform Pre-Delivery Tests

STEP 6

You will need to perform several Pre-Delivery Tests to ensure customer satisfaction
Some equipment may be optional

Turn the vehicle ON and System ON

Confirm the unit starts up properly

Troubleshooting

1) Reset the System while the Vehicle is ON
2) Confirm all connectors are properly installed
3) Check the Vehicle and System Fuses

Select RADIO as the Source

Confirm that the AM and FM reception are as expected

Troubleshooting

1) Confirm Antenna is properly connected.
2) Reset the System

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CarShow Installation Guide – GM Series

Select SATELLITE RADIO as the Source

Troubleshooting

1) Confirm the antenna has unobstructed view of the sky
2) Confirm the antenna is located on the outside of the vehicle

Select iPod as the Source

Confirm iPod is communicating and playback is OK

Troubleshooting

1) Confirm the harnesses are properly engaged
2) Reset the System

Select CD as the Source

Confirm CD audio playback is OK

Troubleshooting

1) Confirm the disc is store bought and in good condition
2) Reset the system

Select DVD as the Source

Confirm DVD video playback is OK

Troubleshooting

1) Ensure the Park Brake is set to view video
2) Confirm the disc is store bought and in good condition
3) Reset the system

Confirm the Video Disable Circuit is properly Operating.

The Brake Wire must be connected to the Park Brake Indicator Wire to complete a ground when the brake is engaged.

Select Phone as the Source

Confirm Phone Pairing is successful

Consult Quick Start Guide for Bluetooth pairing instructions

Note: This screen will NOT appear if OEM BT is being used

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Select NAV as the Source Confirm the Navigation loads and signal strength is OK ***Troubleshooting*** 1) Confirm the antenna has an unobstructed view of the sky 2) Confirm the antenna is located on the outside of the vehicle 3) Confirm the antenna is properly connected		
Select Reverse Camera Confirm the backup camera screen shows in reverse ***Troubleshooting*** 1) Confirm "Reverse Trigger" is set to ON in the Installer Settings 2) Confirm the Reverse Trigger wire is attached properly 3) Confirm the Camera is receiving 12VDC as required		
Select OnStar (If Equipped) **Confirm OnStar Operator is heard** ***Troubleshooting*** 1) Confirm the OnStar Connector is engaged in the unit Reset the System		
Steering Wheel Controls Test Steering Wheel Controls		

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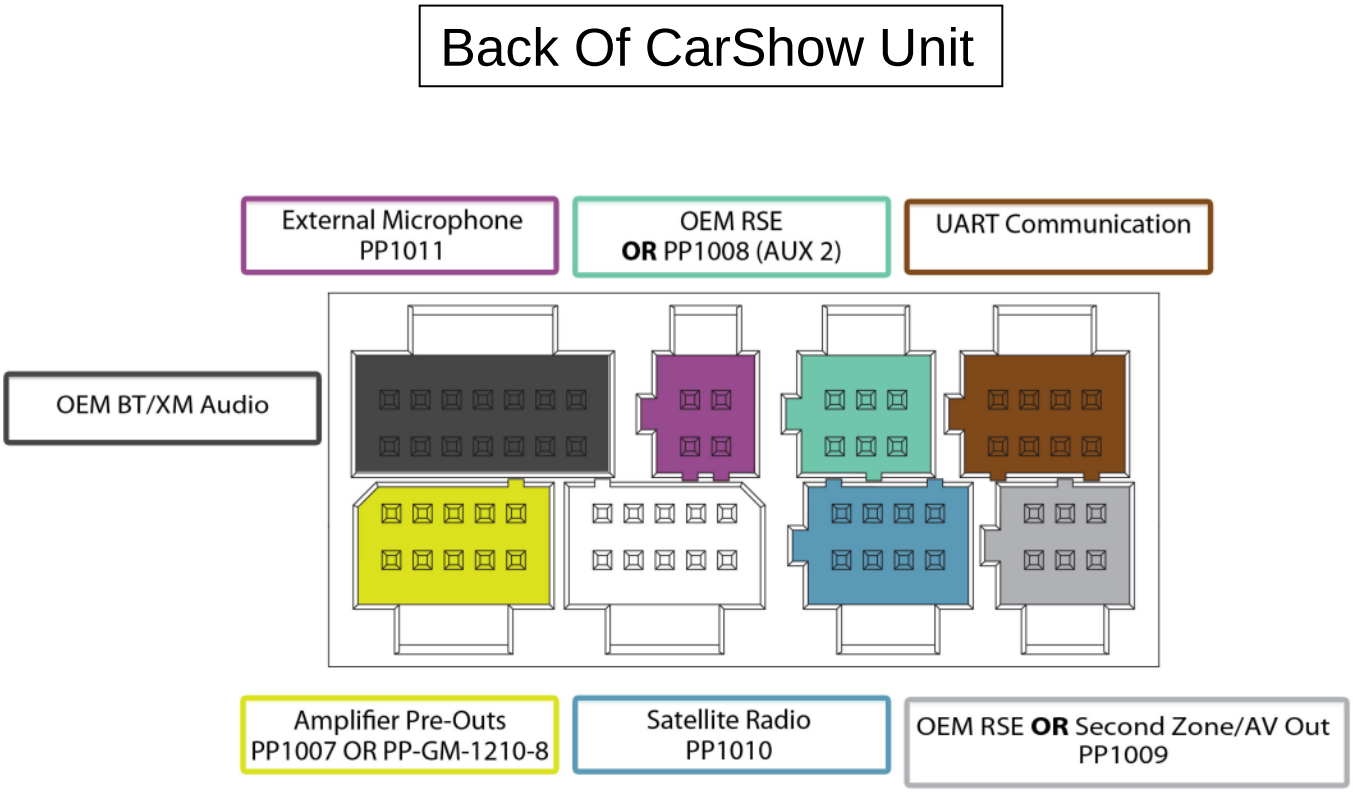
Service and Optional Parts List

Part Number	Description
PP-GM1210-2	Harness, GM-Series Main
CS-GM1012-12	Installation Guide, GM-Series
CS108	Quick Start Guide. GM-Series
PP-GM1210-5	Control, Remote GM-Series
PP-GM1210-6	Harness, Rear Video
PP-GM1210-7	Harness, Bose Subwoofer (Centerpoint)
PP-GM1210-8	Harness, STD Bose
PP-SW-RESLink	GM Can Module
PP1005	Antenna, GPS, 5 meters
PP1006	Ground Plate, GPS Antenna
PP1007	Harness, Line Level Pre-Out w/ Sub
PP1008	Harness, AUX IN/Cam In**
PP1009	Harness, AUX Out**
PP1011	Harness, External BT Mic
PP1012	Harness, AUX in 3.5/RCA
PP1014	Display Cleaning Cloth
PP1010	Harness, Sirius Tuner*
DP-1047	GPS Antenna Windshield Mount*
DP-1066	Camera, License Plate Black*
DP-1067	Camera, License Plate Chrome*
DP-1068	Camera, Universal Black*

* Optional Accessories
** Cannot be used in vehicles equipped with **OEM** Rear Seat Entertainment

Harness Diagram


Back Of CarShow Unit
External Microphone PP1011
OEM RSE OR PP1008 (AUX 2)
UART Communication
OEM BT/XM Audio
Amplifier Pre-Outs PP1007 OR PP-GM-1210-8
Satellite Radio PP1010
OEM RSE OR Second Zone/AV Out PP1009

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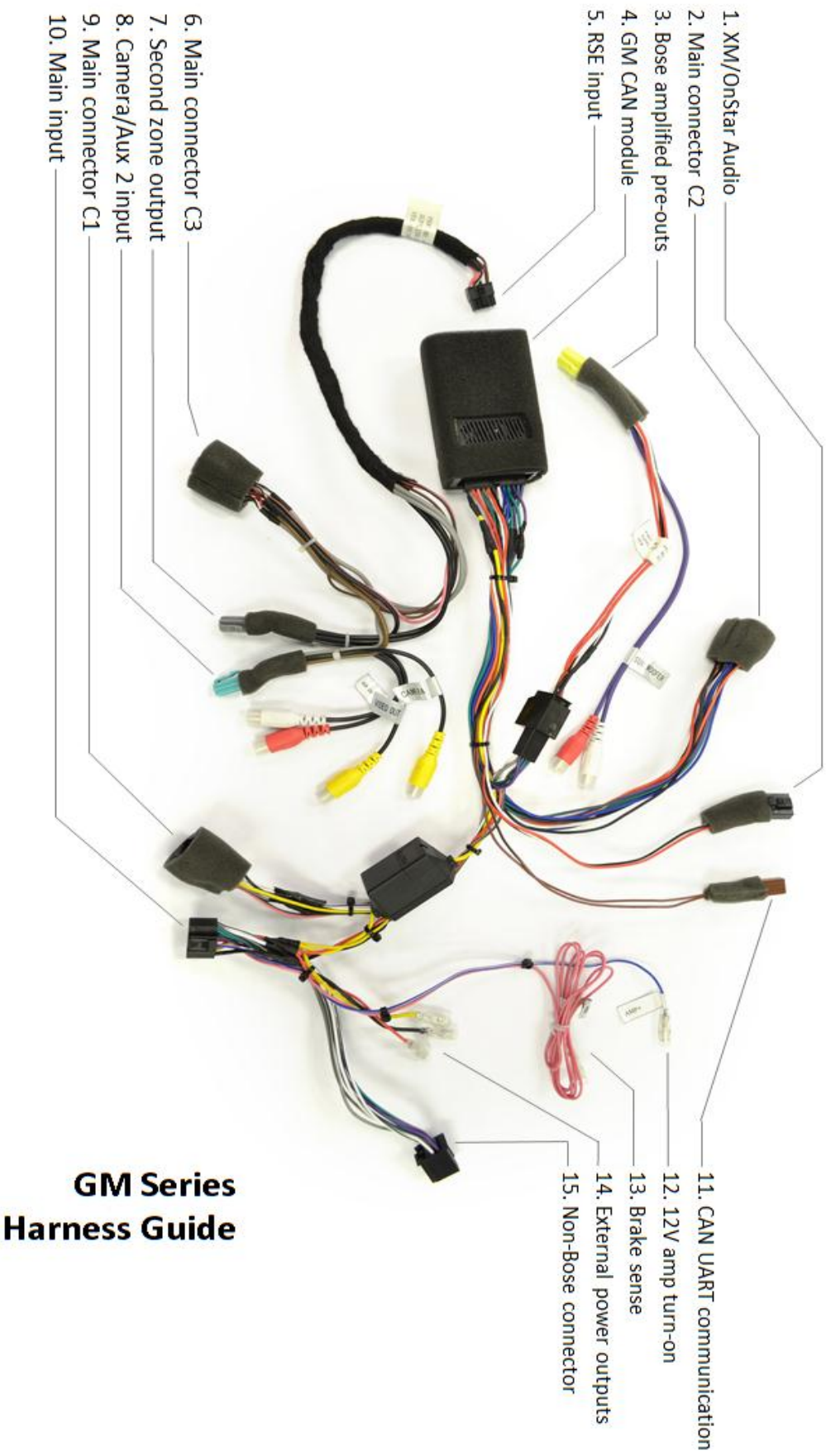

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CarShow Installation Guide – GM Series

1. **XM/OnStar audio** – Connects to the rear of the radio to supply audio for the factory XM and factory OnStar audio
2. **Main connector C2** – Connects to the OEM radio secondary plug
3. **Bose amplifier pre-outs** – Connects to the back of the radio and to the main harness for use with Bose amplified systems only
4. **GM CAN module** – Translates CAN data between the vehicle and the navigation system
5. **RSE input** – Connects to the CAN module to integrate the OEM Rear Seat Entertainment systems
6. **Main connector C3** – Connects to the OEM Rear Seat Entertainment plug
7. **Second zone output** – Replaces the PP-1009 when OEM Rear Seat Entertainment is present
8. **Camera/Aux 2 input** – Replaces the PP-1008 harness when OEM Rear Seat Entertainment is present
9. **Main connector C1** – Adapts to the OEM radio main plug
10. **Main input** – Connects to the back of the navigation to supply power and high level speaker outputs
11. **CAN UART communication** – Plugs into the rear of the radio and controls OnStar and steering wheel control data
12. **12V amp turn-on** – 12 Volt+ amplifier turn on trigger
13. **Brake sense** – Must be connected to the parking brake sense wire to disable video capability while driving
14. **External power outputs** – Optional power and ground outputs
15. **Non-Bose connector** – Used instead of the Bose amplified harness in most non-Bose vehicles

GM Harness Trouble Shooting Guide

Bose amplified system is overdriven

Connect the Bose low level adaptor harness

Non-Bose system has low volume

Verify the Bose low level outputs are not connected in place of the non-Bose high level harness

Steering wheel controls are unresponsive

Connect the CAN UART communication plug into the back of the radio

Rear Seat Entertainment does not work

Verify the RES input is connected to the CAN module and connector C3 is connected to the OEM C3 plug

Radio and CAN module are unresponsive

Check the connection of connector C1 and Plug C1

Check the main connection at the CAN module

Check the fuse located in the power filter near connector C1

Check all vehicle fusing

XM/OnStar has no audio

Verify the XM/OnStar plug is connected

For all other problems

Recheck all connections and fuses then reset the radio if possible before contacting CarShow Electronics Technical Support

CARSHOW

www.CarShowElectronics.com

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